

FIG. 1

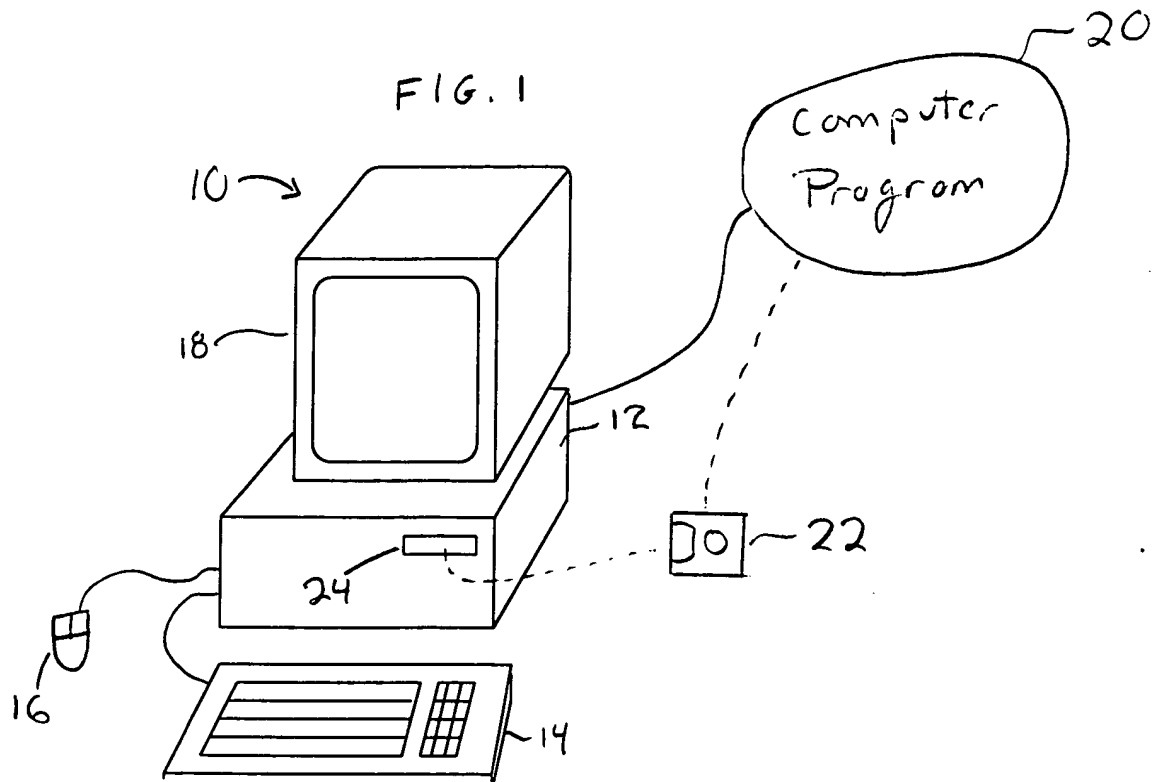


FIG. 2

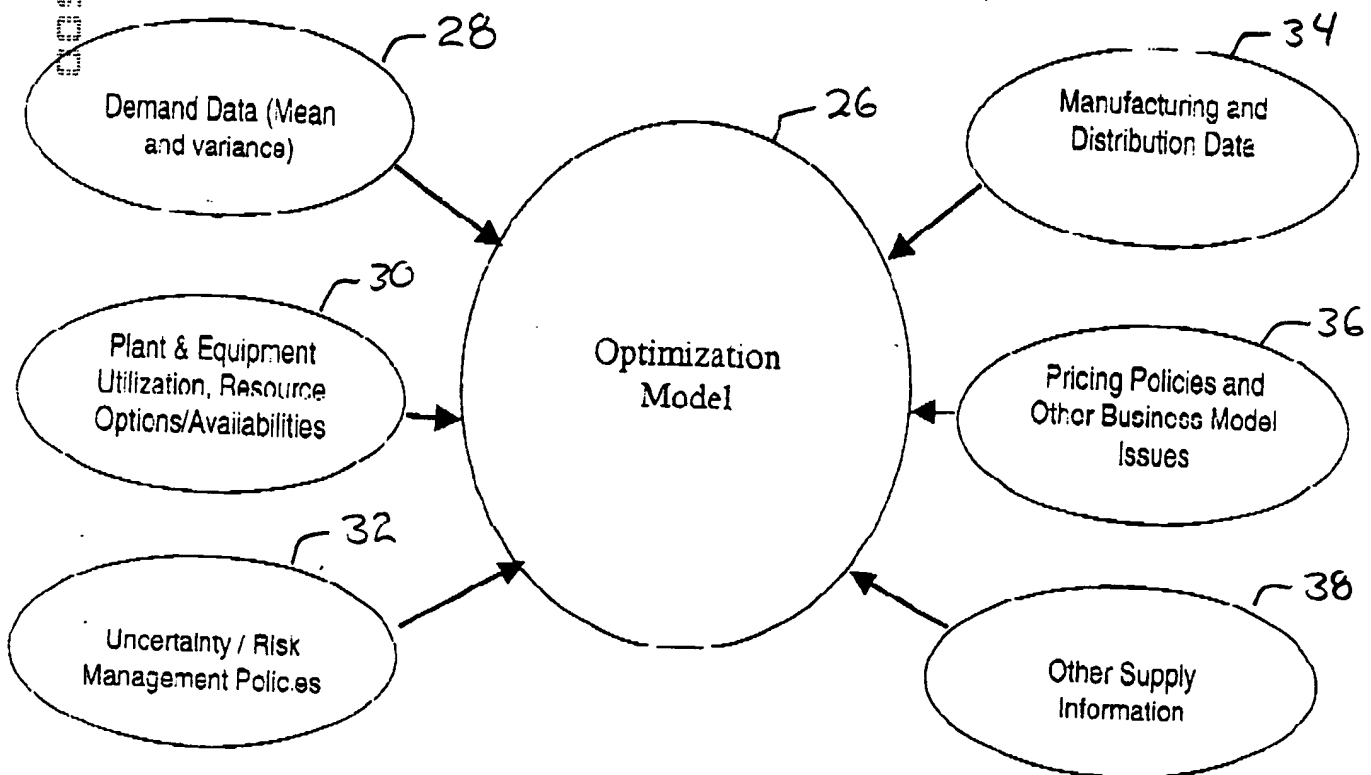


FIG. 3

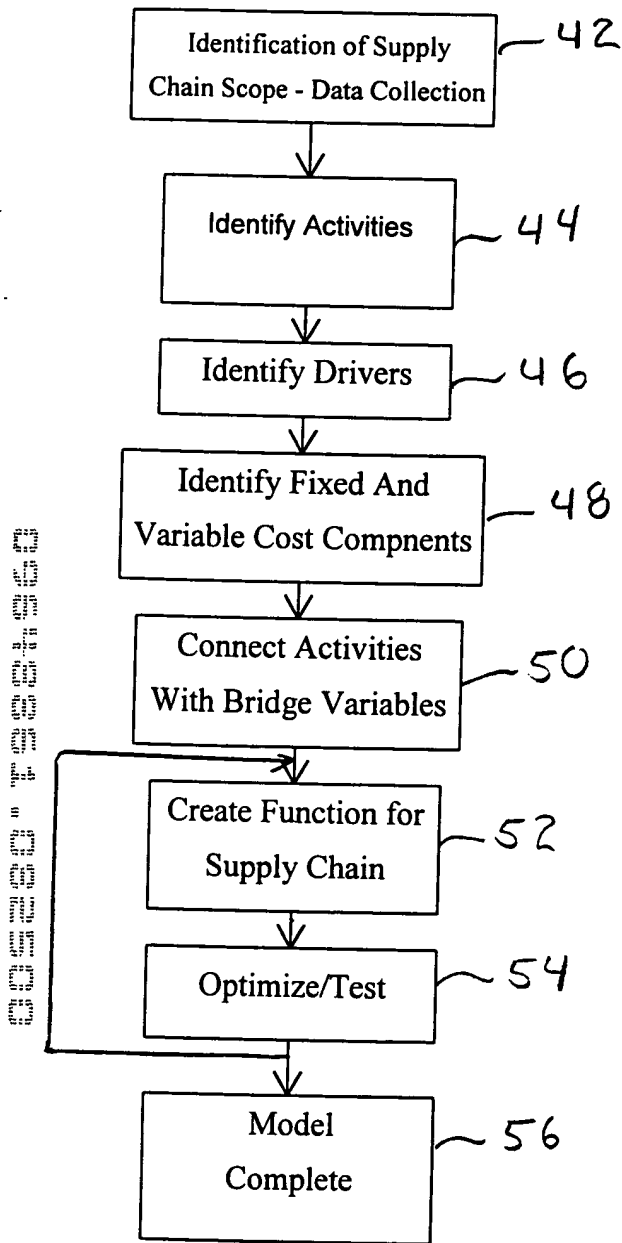


FIG. 4

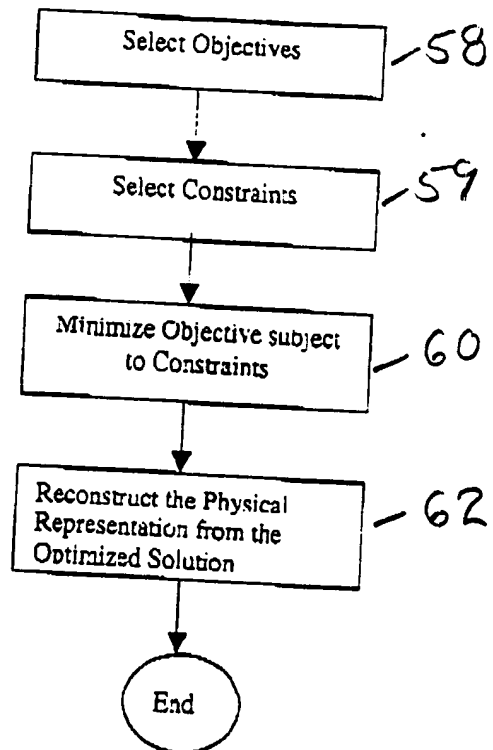


FIG. 5

## What-If Inputs

- Freight costs
- Lead Times
- Holding Costs per type of product
- Store Demand Data: *Historical, Seasonality, Volatility*
- Existing Resources: *Number of Suppliers, Number of DCs, Number of Stores, Number of Trucks (assuming infinite)*
- Constraints: product freshness, warehouse space (assuming infinite), truck capacity

Model 26  
Objective:

Minimize Total  
System Cost

## Optimal Outputs

- Order placement frequency
- Outbound delivery frequency
  - Produce
  - Other Items
- Optimal inventory levels
  - At DC Level
  - At Stores
- DC-Store Assignments: *What DC should serve which store co-ops?*